Lampiran

TABEL DISTRIBUSI

No	NAMA DISTRIBUSI	FUNGSI DENSITAS	RATAAN E(X)	VARIAN Var(X)
1	Normal	$f(x)=\frac{1}{\sqrt{2\pi\sigma}}\exp\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2$ $-\infty < x < \infty$	μ	σ^2
2	Bernoulli	$f(x)=p^x(1-p)^{1-x}$ $x=0,1$	p	$p(1-p)$
3	Binomial	$f(x)=\binom{n}{p}p^x(1-p)^{n-x}$ $x=0,1,2,\ldots,n$	np	$np(1-p)$
4	Geometri	$f(x)=p(1-p)^x$ $x=0,1,2$	$\frac{1}{p}$	$\frac{1-p}{p^2}$
5	Poisson	$f(x)=\frac{e^{-\lambda}\lambda^x}{x!}$	λ	λ^2
6	Gamma	$f(x)=\frac{(\mu n)^m}{(m-1)!}t^{m-1}e^{-m\mu}$, $t\geq 0$ $x>0$, $\mu>0$, $\lambda>0$	$\frac{1}{\mu}$	$\frac{1}{m\mu^2}$
7	Eksponensial	$f(x)=\lambda e^{-\lambda x}$ $\lambda \geq 0$	$\frac{1}{\lambda}$	$\frac{1}{\lambda^2}$
8	Pascal	$f(x)=\binom{x-1}{r-1}p^r q^{x-r}$	$\frac{rq}{p}$	$\frac{rq}{p^2}$
9	Uniform	$f(x)=\begin{cases}\frac{1}{b-a} & , a<x<b \\ 0 & , x \text{ lainnya}\end{cases}$	$\frac{a+b}{2}$	$\frac{(b-a)^2}{12}$

10	Hiper geometrik	$f(x)=\dfrac{\binom{m}{x}\binom{N-M}{n-x}}{\binom{N}{n}}$	$\dfrac{nM}{N}$	$\dfrac{(N-M)(N-n)}{N(N-1)}\cdot\dfrac{nM}{N}$
11	Binomial Negatif	$f(x)=\binom{x-1}{r-1}p^r(1-p)^{x-r}$ $x=r,r+1,r+2,...$	$\dfrac{r(1-p)}{p}$	$\dfrac{r(1-p)}{p^2}$
12	Beta Binomial	$f(x)=\dfrac{\binom{n}{x}\Gamma(\alpha+\beta)}{\Gamma(\alpha)\Gamma(\beta)}$	$\dfrac{n\alpha}{\alpha+\beta}$	$\dfrac{n\alpha\beta(n+\alpha+\beta)}{(\alpha+\beta)^2(\alpha+\beta+1)}$
13	Logaritmis	$f(x)=\dfrac{(1-p)^x}{-x\ln p}$ $x=1,2,...$	$\dfrac{1-p}{-p\ln p}$	$\dfrac{(1-p)((1-p)+\ln p)}{-p(p\ln p)^2}$
14	Beta	$f(x)=\begin{cases}\dfrac{1}{B(a,b)}x^{a-1}(1-x)^{b-1} & x=0,1,... \\ 0 \quad \text{untuk lainnya}\end{cases}$	$\dfrac{a}{a+b}$	$\dfrac{ab}{(a+b+1)(a+b)^2}$
15	Distribusi t	$f(x)=\dfrac{\Gamma\left(\frac{r+1}{2}\right)}{\sqrt{\pi r}\,\Gamma(r/2)}\dfrac{1}{\left(1+t^2/2\right)^{r+1/2}}$ $\infty<t<\infty$ $f(x)=0$, untuk lainnya	$\mu=0$ untuk $t>0$	$\dfrac{t}{t-2}$, untuk $t>2$
16	Double Eksponensial	$f_x(x)=\dfrac{1}{2\beta}\exp\left(\dfrac{-\lvert x-\alpha\rvert}{\beta}\right)$	α	$2\beta^2$

17	Weinbull	$f_x(x) = \begin{cases} abx^{b-1}\exp, \\ 0 < x < \infty \\ 0 \text{ untuk lainnya} \end{cases}$	$a^{-1/b}\Gamma(1+b^{-1})$	$a^{\frac{-2}{b}}\left[\Gamma\left(1+2b^{-1}\right)-\left(\Gamma\left(1+b^{-1}\right)^2\right)\right]$
18	Poreto	$f_x(x) = \begin{cases} \frac{\theta x_0^{\theta}}{x^{\theta+1}}, \ x_0 < x < \infty \\ 0, \text{ untuk lainnya} \end{cases}$	$\frac{\theta x_0}{\theta - 1}$	$\frac{\theta x_0^2}{(\theta-1)^2(\theta-2)}$
19	Gumbel	$f(x) = \exp(-e^{-(x-a)/\beta})$	$\alpha + \beta\gamma$	$\frac{\pi^2\beta^2}{6}$
20	Chi – square	$f(x) = \begin{cases} \frac{1}{\Gamma\left(\frac{r}{2}\right)2^{r/2}} x^{(r/2-1)}e^{-x/2} \\ 0 < x < \infty \\ 0, \text{ untuk lainnya} \end{cases}$	r	$2r$